

## Anti-IL-1 activity of peptide fragments of IL-1 family proteins.

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A series of peptides containing retro-tuftsin- and tuftsin-like motifs from IL-1 proteins inhibits IL-1-induced IL-2 production and reduces the humoral immune response, thus supporting our hypothesis that tuftsin (Thr-Lys-Pro-Arg)-IL-1 competition depends on the presence of such motifs in IL-1 proteins. Some other peptides from regions of IL-1 responsible for receptor binding were also active, with peptide Ile-Thr-Gly-Ser-Glu (III) from IL-1 $\alpha$  (residues 98-102), not only strongly affecting IL-2 production, but also suppressing the immune response; the analogue of hexapeptide Val-Thr-Lys-Phe-Tyr-Phe from the C-terminal part of IL-1 $\alpha$ , with Lys replaced by Asp, was as efficient as Val-Thr-Lys-Phe-Tyr-Phe with respect to IL-1 competition.

### Adres publiczny

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